

Claims:

*Huber*

1. Motor-driven manual wrench containing a drive motor to which a first torque limiter is attached and containing a head (1) that has the driving tool or a receptacle for a driving tool, a ratchet drive (6) and a torque limiter (5) attached to ratchet drive (6) being located in head (1) such that the manual wrench forms a manually operable torque wrench whose transmittable torque is determined by torque limiter (5).
2. Manual wrench according to Claim 1, characterized in that head (1) is mounted replaceably on the rest of the wrench.
3. Manual wrench according to Claim 1 or Claim 2, characterized by an adapter (12) which is connected to the drive shaft of head (1), and to the output shaft of the motor.
4. Manual wrench according to one of the foregoing claims, characterized in that head (1) is designed as an angle head whose output shaft is offset relative to the drive shaft.
5. Manual wrench according to one of the foregoing claims, characterized in that torque limiter (5) is designed to be adjustable such that the transmittable tightening torque is adjustable to specified values.
6. Manual wrench according to one of the foregoing claims, characterized in that the torque limiter (5) has an articulated joint (8), with an articulated body (9) held between two supports, the one support (15) being pivotably mounted at a distance from articulated body (9), said support enabling an articulating motion between this support (15) and articulated body (9), and the pivot axis of this support (15) coinciding with the axis of shaft (4) whose transmittable torque is limited by torque limiter (5).
7. Manual wrench according to one of the foregoing claims, characterized by a visual display which is activatable when a specified tightening torque is obtained.

8. Manual wrench according to Claim 7, characterized in that the display is mechanically activatable.
9. Manual wrench according to one of the foregoing claims characterized by an electrical sensor which generates a signal when the specified tightening torque is obtained.
10. Manual wrench according to Claim 9, characterized by an electronic circuit which is effectively connected with the sensor, the circuit activating an acoustic and/or visual display when the predetermined number of driving operations implemented with a specified tightening torque is obtained.
11. Manual wrench according to Claim 9 or Claim 10, characterized by an electronic circuit which is effectively connected with a sensor, the circuit activating an acoustic and/or visual display when a signal is received from the sensor.
12. Manual wrench according to Claims 8 through 11, characterized in that the display is located at head (1).
13. Manual wrench according to one of the foregoing claims, characterized in that the manual wrench has an elongate design as a rod-type wrench.
14. Manual wrench according to one of the foregoing claims, characterized in that a flat output means is located at head (1).
15. Manual wrench according to one of the foregoing claims, characterized in that the manual wrench is equipped with a wireless power supply for the motor.
16. Manual wrench according to one of the foregoing claims characterized by a tubular housing accommodating the motor and drive train, which housing is designed with high bending strength, which bending strength during manipulation of the wrench allows for the transmission of considerably higher tightening torques to the driving operation than from the motor drive, with the rod-shaped housing having a grip area for manual actuation of the manual wrench.

17. Manual wrench according to Claim 16, characterized in that the housing consists of metal.

18. Manual wrench according to Claim 17, characterized in that the housing consists of light metal.